

Kirtland Air Force Base Fuel Spill Cleanup

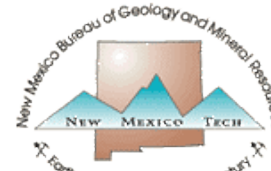
May 27, 2015



Ryan Flynn
Secretary of Environment

A Partnership for Success

The following organizations are working together to solve the complex hydrogeologic and engineering challenges posed by the fuel spill site.



US Army Corps of Engineers



Thank You Neighborhoods!

The Air Force and NMED sincerely thank the neighborhoods for putting up with the temporary road blocks and noise from the well drilling rigs.

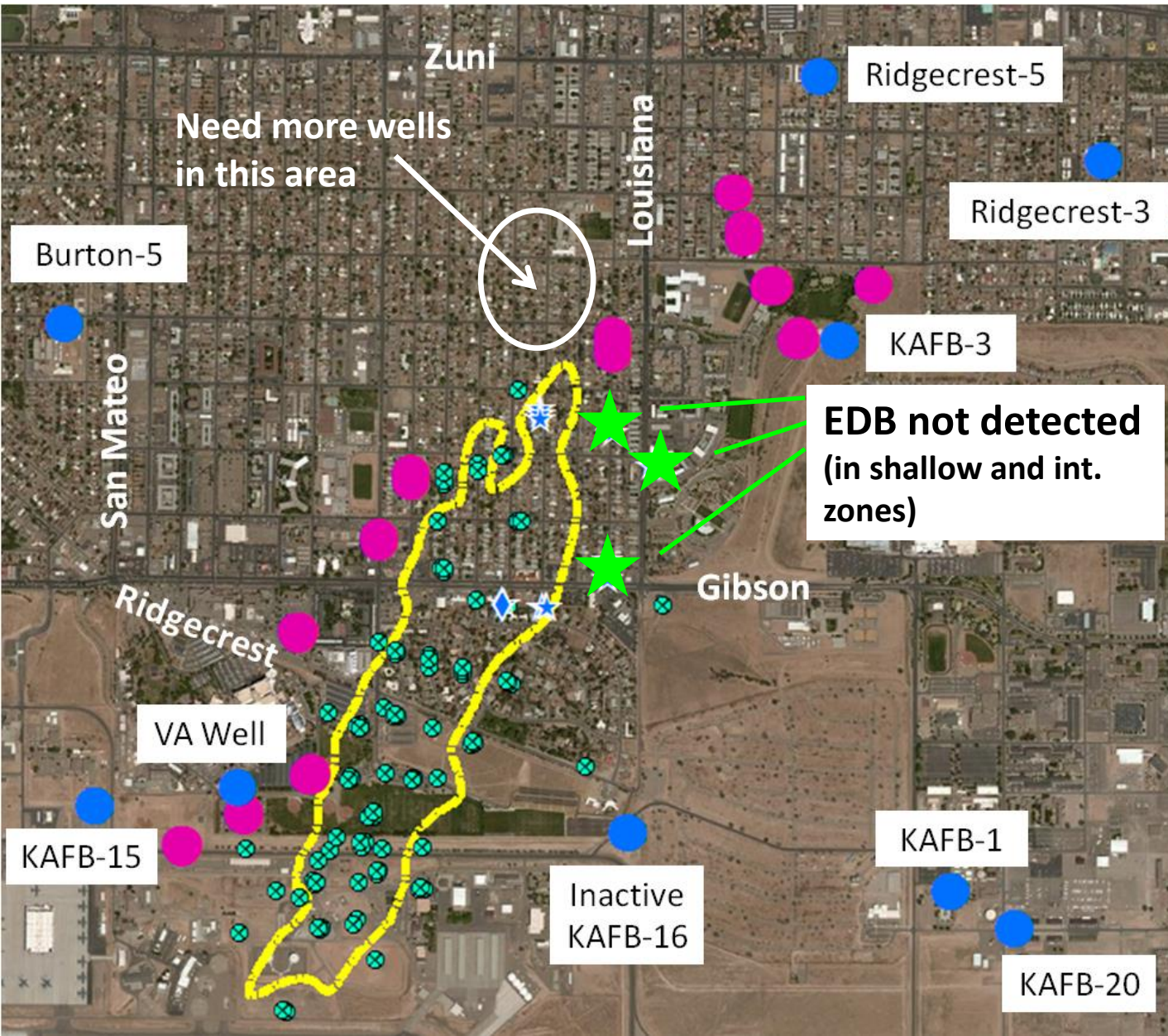


Drinking Water Protection

- Drinking water supply wells in the area are tested monthly and show no detections of any fuel contaminants
- Sentinel wells, drilled between the contamination plume and drinking water wells, also show no detections

EDB will absolutely not be allowed to impact any drinking water supply system at detectable concentrations


Plume Definition



EDB appears to be migrating in braided stream sediments

EDB not migrating towards KAFB-3 and Ridgecrest-3

Legend

- Drinking Water Well
- Sentinel Well or Well Nest
- ◆ Extraction Well
- ⊗ Monitoring Well
- ★ New Monitoring Well
-  EDB Plume

Critical Work for 2015

- **Drill data gap wells**
- **Install four EDB extraction wells**
- **Construct water treatment system**
- **Perform soil vapor extraction rebound testing**
- **Identify and attack rebounding vapor hotspots**
- **Conduct soil bio-respiration testing**
- **Screen LNAPL remediation technologies, identify best options for lab and field pilot testing**

Collapsing the Dissolved EDB Plume

**Drill Additional
Extraction Wells**

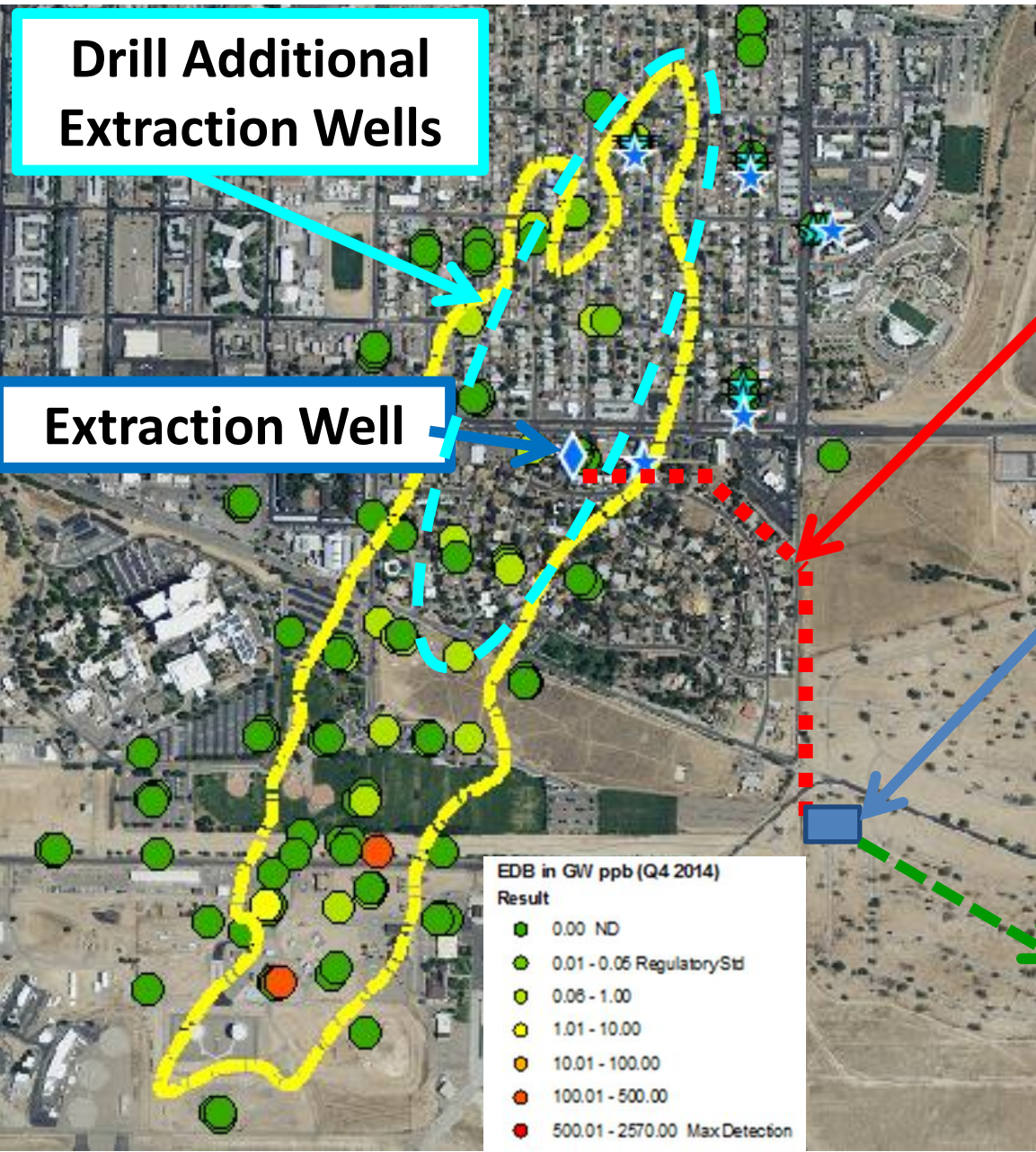
Extraction Well

**EDB Extracted Water
Conveyance Line**

**EDB Treatment System
Using Granular
Activated Carbon**

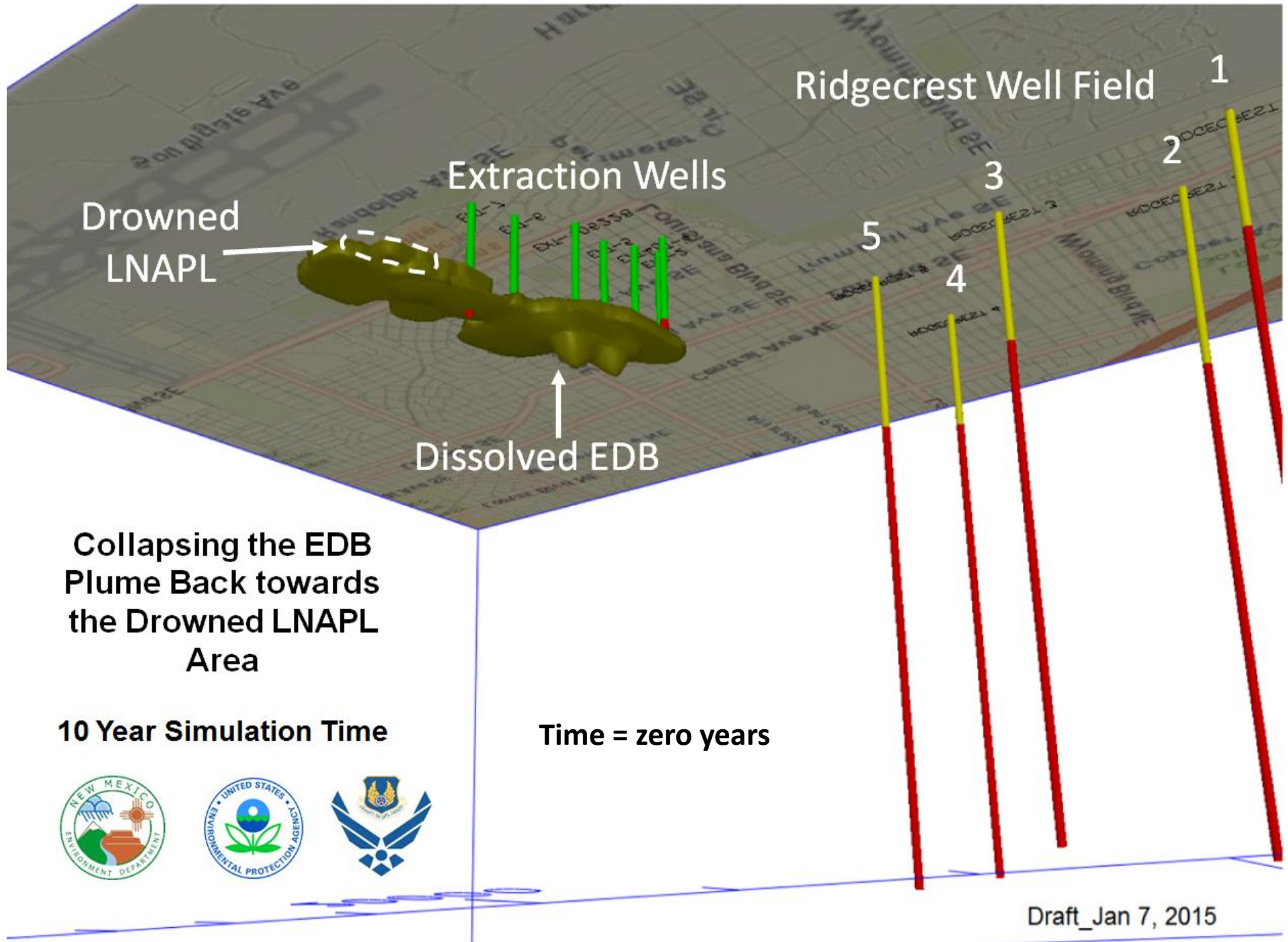
Treated Water:

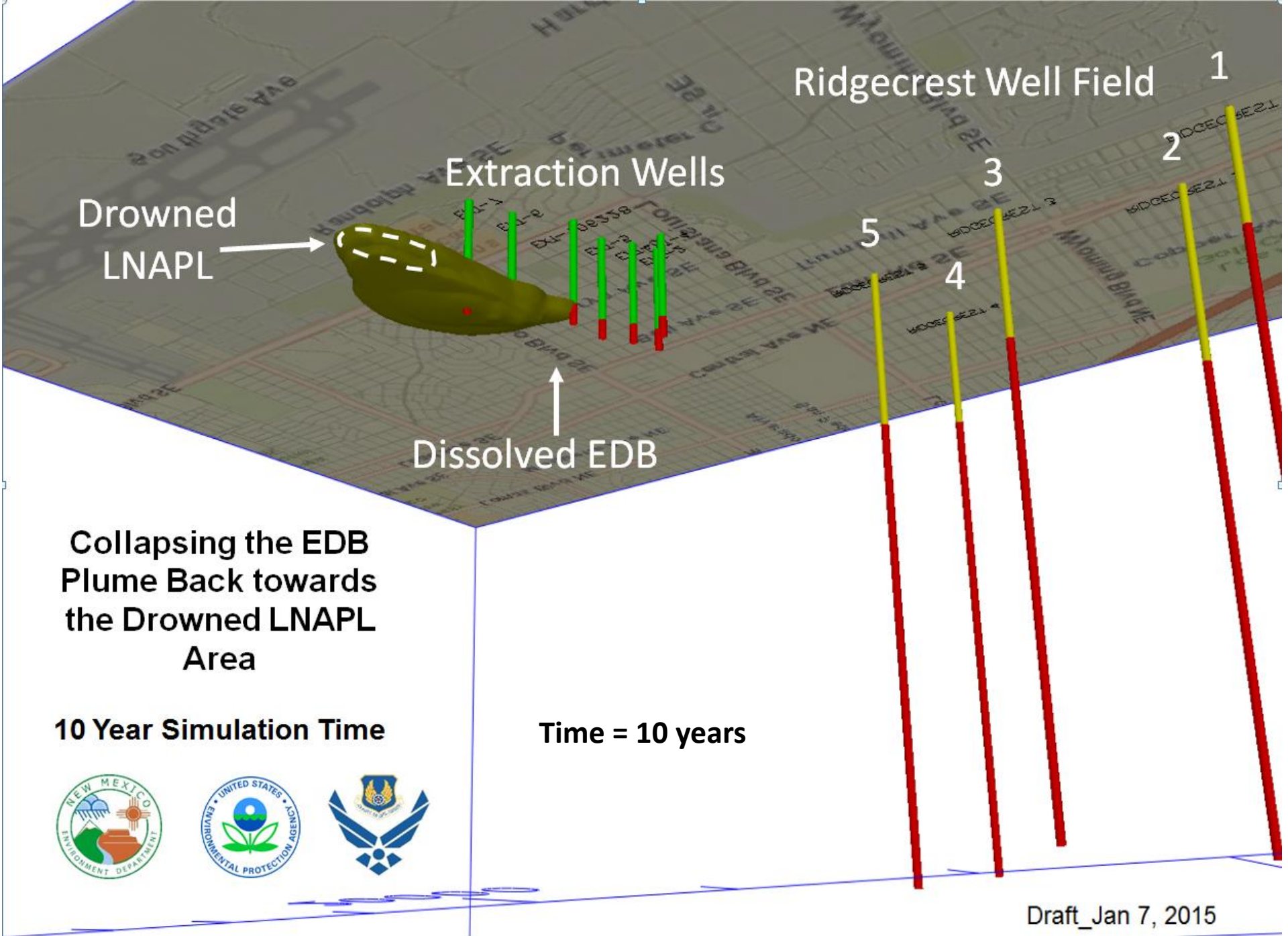
- Infiltration Gallery for Aquifer Recharge
- Landscape Irrigation
- Non-potable Reuse



EDB in GW ppb (Q4 2014)
Result

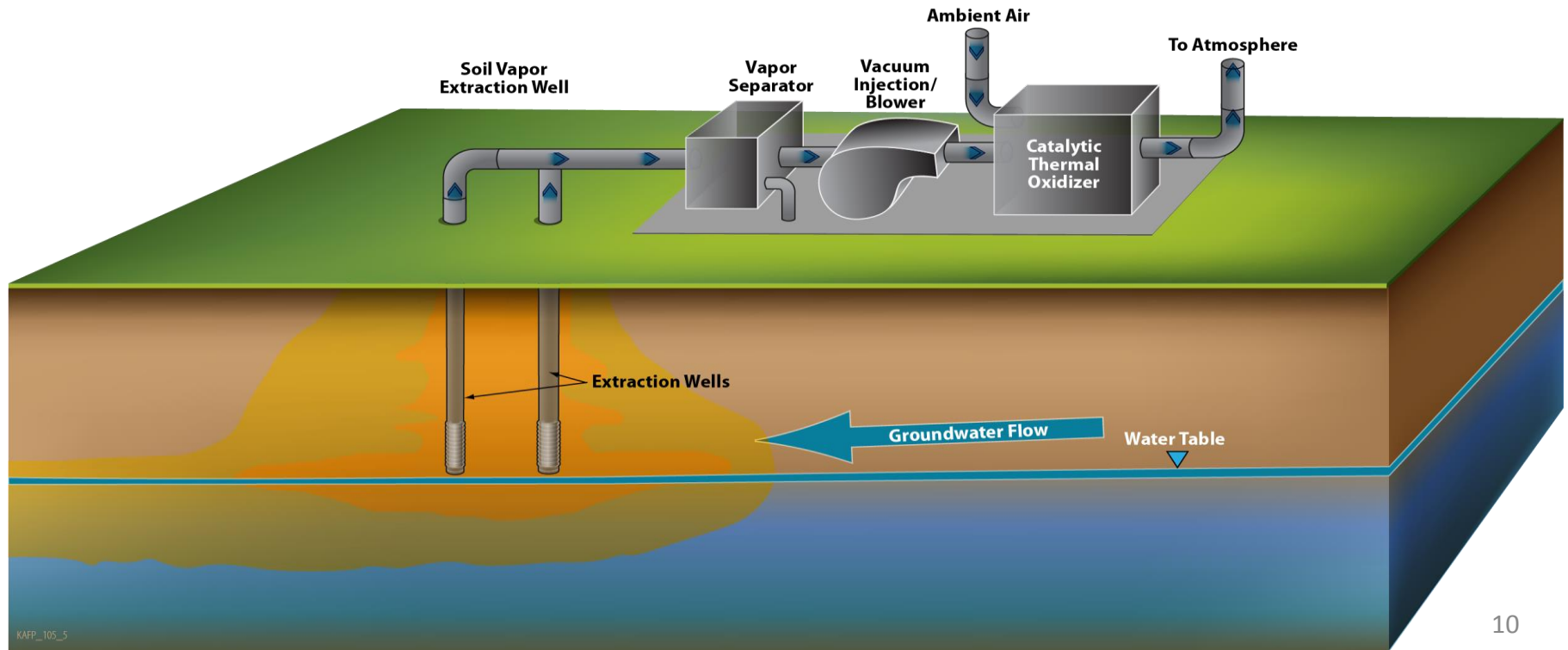
●	0.00 ND
●	0.01 - 0.05 Regulatory Std
●	0.06 - 1.00
●	1.01 - 10.00
●	10.01 - 100.00
●	100.01 - 500.00
●	500.01 - 2570.00 Max Detection





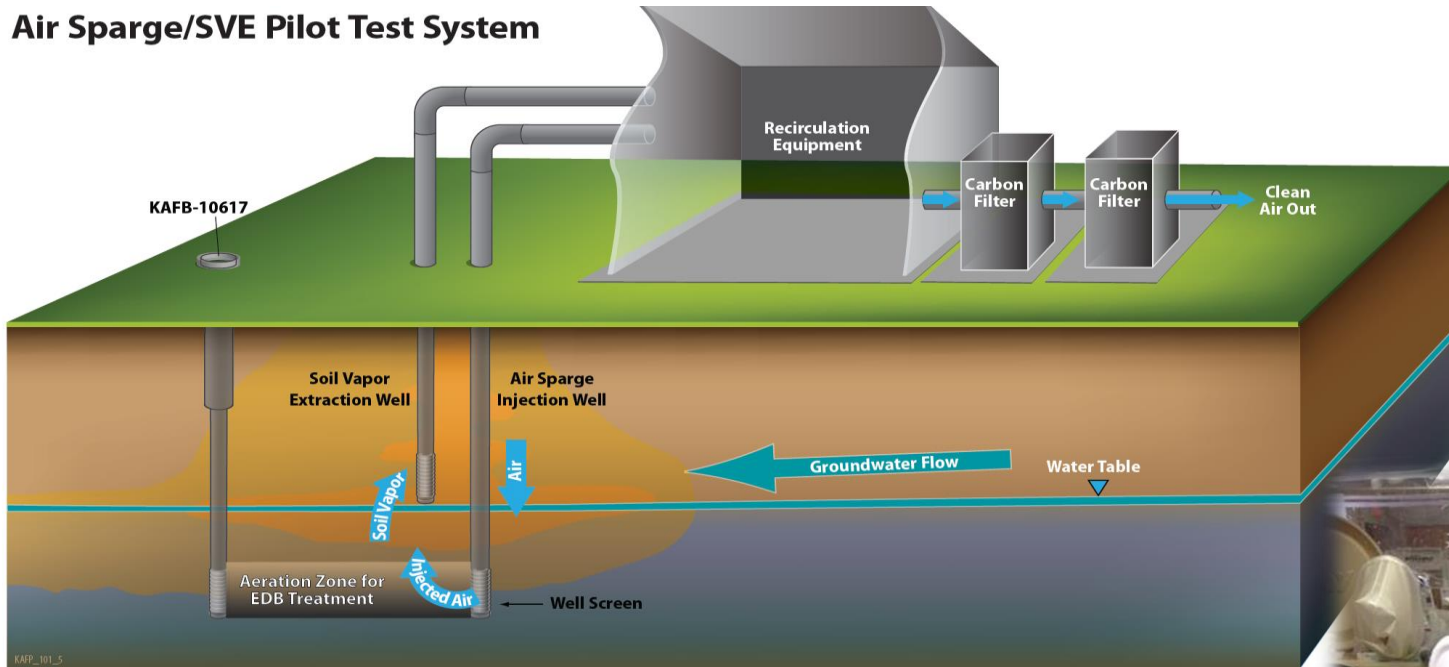
Soil Vapor Extraction (SVE)

- Vapor emissions are treated in accordance with City of Albuquerque Air Quality Permit requirements
- Rebound testing underway to identify and attack vapor hotspots
- Soil respiration testing underway to identify areas for transitioning from SVE to bioventing



In-Situ LNAPL Treatment

Air Sparge/SVE Pilot Test System



- Laboratory studies and air sparging field tests to evaluate treatment options for drowned LNAPL



Upcoming Public Events

- **July 23, 2015, 5:30 p.m. – Public meeting to update community on investigation and cleanup progress – African American Performing Arts Center, San Pedro NE and Copper NE on the State Fairgrounds**
- **Late October 2015 – Public field trip – itinerary being developed but will include soil and groundwater cleanup infrastructure; transportation on base will be provided**

How do I get more information?

Contact NMED:

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KAFB project communications lead
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505-222-9548

NMED Website and Listserv: <http://www.nmenv.state.nm.us/>

Contact the Air Force:

Air Force Civil Engineer Center
Office of Public Affairs
2261 Hughes Ave, Ste 155
Joint Base San Antonio-Lackland TX 78236-9853
(210) 925-0956 or (866) 725-7617
Email: afcec.pa@us.af.mil

Air Force BFF-specific spill website: www.kirtlandjetfuelremediation.com

Kirtland AFB website at <http://www.kirtland.af.mil> in the Environmental Issues section for Public Records.